



December 2002

Volume III, Issue 12

Marine recovers after close call

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Bob Simpson, Air Force Research Laboratory engineer, and his family had a special Thanksgiving this year because their son is alive and well, and returned home to live with them earlier this month.....2

Airman provides life support while deployed in Vietnam

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — When Tech Sgt. Timothy Robinson returned on November 10th from his assignment in Vietnam, he was not just happy to be back in the United States, he was also honored to have had the opportunity to help those who had served this country before him.....3

Airmen help Ohio tornado victims pick up the pieces

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Approximately 30 Wright-Patterson AFB volunteers helped families in Van Wert begin to put their lives back together.4

'Helping Hands' spread holiday cheer in PR Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — The spirit of Christmas is alive and well in the Propulsion Directorate this holiday season.4

Additional information is available online including:

- **Breaking News Features**
- **Corporate Calendar**

ML engineer receives BEYA honor

by Timothy R. Anderl, Materials and Manufacturing Directorate



Edmund Moore

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — An Air Force Research Laboratory Materials and Manufacturing Directorate engineer will receive a 2003 Black Engineer of The Year Award at the 17th Annual Black Engineer of the Year Awards Conference to be held in Baltimore Feb. 13 through 15.

Edmund Moore, a basic research program manager/scientist, will receive the award in the Special Recognition category for his professional achievements and personal commitment to helping others succeed. The BEYA honor is given to black engineers who are recognized as front-runners. Moore's career accomplishments and leadership, particularly during the nomination period, provided profound, long-term contributions to the placement of blacks, women and other minorities in the Air Force's scientific research and development areas.

"Throughout his career, Moore has demonstrated outstanding technical knowledge, professional integrity, a strong work ethic, leadership, and community consciousness, and has demonstrated the ability to conquer critical tasks," said Charles Browning, ML director. "His selection for this award and his outstanding efforts are testimony to his character, and to the dedication and professionalism of the men and women of ML."

Moore earned undergraduate degrees in mathematics and physics from Florida A&M. He began his career with ML in 1991, and was assigned to attend the University of Florida where he received both a master's degree and a doctorate in Materials Science and Engineering.

In November 2000, Moore assumed the added responsibility of implementing a program to increase the quantity of technical work performed by the Historically Black Colleges and Universities collaboration program, while increasing the number of blacks and other minority scientists in the directorate. The program seeks to identify, characterize and select the most compatible HBCUs with materials and manufacturing research and development capabilities to conduct mutually beneficial research and development efforts. The collaboration program Moore developed has become known as the "AFRL/ML HBCU Collaboration Model." He has influenced the modification and adoption of the model to AFRL and its other directorates, which have a combined annual budget of around \$1.5 billion and 2,700 employees. AFMC, designated the model as a "Best Practice" Air Force program, and is currently implementing its adoption throughout the command.

Outside of work, Moore has served on a local task force for the city of Dayton, Ohio, is a member of the National Minority Science and Engineering Institute, and has served on the Pan-Hellenic Council as an officer, organizing youth career fairs and aiding fund raising efforts for scholarships to Central State and Wilberforce Universities. Moore is active in the Omega Baptist Church, and is a member of the steering committee of Parity Inc., a local minority think tank that is fostering education, economic development, media coverage and government responsibility.

continued on page 3

news@afrl

December 2002

Commander

Maj. Gen. Paul D. Nielsen

Director of Public Affairs

Anne Gunter

Production Editor

Jill Bohn

Associate Editor

Katherine Gleason

news@afrl is published monthly by the Office of Public Affairs of Air Force Research Laboratory Headquarters. Contact the office at AFRL/PA, Building 15 Room 225, 1864 4th St., WPAFB, Ohio, 45433-7132, (937) 656-9010/9876, or send e-mail to AFRL.PA@afrl.af.mil. Contents of this newsletter are not necessarily the official views of, or are endorsed by, the U.S. Government, the Department of Defense or the Department of the Air Force. The editorial content is edited, prepared and provided by this office. Photographs are official U.S. Air Force photos unless otherwise indicated. Submission guidelines are available from this office or on-line. Electronic copies and additional full-text articles are available on-line at:

<http://extra.afrl.af.mil/news/index.htm>

Marine recovers after close call

by Grace Janiszewski, Sensors Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Bob Simpson, Air Force Research Laboratory engineer, and his family had a special Thanksgiving this year because their son is alive and well, and returned home to live with them earlier this month.

Marine Lance Cpls. George Simpson, son of Bob Simpson, and Antonio Sledd were shot by two gunmen in Kuwait during an annual exercise Oct. 8. The gunmen opened fire around midday on 150 Marines of the 11th Marine Expeditionary Unit who were conducting no-live fire urban assault training on Failaka Island.

Simpson will have permanent damage to his arm, but he is on the path to recovery. The Marine Corps is allowing him to relocate to Wright-Patterson during his convalescence. His recovery will take a minimum of six months, and could be longer depending on how the bones in his forearm heal.

Troops rushed to aid the injured men following the attack; Navy Seaman J. Koleosho assisted in Simpson's care. According to Simpson, Koleosho is responsible for saving his life by swiftly applying a tourniquet.

Sledd, of Hillsborough, Fla., died en route to the medical facility.

According to Bob Simpson, before his son's incident, and especially since Sept. 11, 2001, the family realized that serving in the military today isn't an easy path. "You can be a target simply because you're an American."

Gen. James L. Jones, commandant of the Marine Corps, presented Simpson with his Purple Heart Medal Oct. 19.

"He is very patriotic and understands many people have died to secure and protect our freedom," said his father. "For him, it was just an absolute necessity to serve his country."

Simpson joined the Marine Corps in July 1999. Following basic training, he was stationed in Naples, Italy, as a security forces troop.

Military service is nothing new to the Simpson family. Bob, an Air Force ROTC graduate from the University of Kentucky, served on active duty for eight years before joining the Air Force Research Laboratory Sensors Directorate as a civilian in 1989. @

**Find additional Fe@tures
on the web.....**

**Tiny AFRL Satellites Released
from Space Shuttle**

**Air Force is developing a
solid-state laser**

**AFRL Rome engineer honored
by SDRF**

Airman provides life support while deployed in Vietnam

by Katherine Gleason, AFRL Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — When Tech Sgt. Timothy Robinson returned on November 10th from his assignment in Vietnam, he was not just happy to be back in the United States, he was also honored to have had the opportunity to help those who had served this country before him.

On most days, Robinson works as the NCOIC of the Acceleration Branch, for Air Force Research Laboratory's Human Effectiveness Directorate. However, Robinson switched gears and spent a month in Vietnam working as a life support analyst to recover and identify the remains of missing American soldiers.

Robinson's work was conducted as part of the Joint Task Force-Full Accounting (JTF-FA) program. The mission of JTF-FA is to achieve the fullest possible accounting of any Americans who are still considered missing or unaccounted for while serving in because of the war in Southeast Asia.

"This was a wonderful experience for me," said Robinson. "I'd been trying to go on this assignment for about two years, and I was finally chosen."

While working as a life support analyst, Robinson had three major responsibilities. The first was to help narrow the scope of the search.

"I worked to identify any life support gear found in a particular location," explained Robinson. "Then, I assisted in directing the team anthropologist on the best places to search."

The second responsibility of the team was to examine wreckage sites to determine if anyone was inside the aircraft at the time of impact. Third, was to identify the type, model and tail number of the aircraft.

Searches conducted by the team were structured like archaeological digs. A grid was laid out around the potential recovery location, and team members and locals carefully sifted through the dirt.

Because of the remote nature of the searches, the team slept



Tech Sgt. Timothy Robinson takes a break during a recovery operation in Vietnam. This dig is one of many conducted by the Joint Task Force-Full Accounting program to identify missing and unaccounted for Americans in Southeast Asia. (Photo courtesy of Robinson)

in tents in the field, and was responsible for providing most of their own necessities.

"We worked seven days a week," said Robinson. "Before we left for Vietnam, we had to purchase enough food to last for the full 30 days. We were also provided with a list of clothing, personal, and quality of life items that we would need during the stay."

While the living conditions were challenging, Robinson never forgot why he was in this distant land.

"I felt a sense of honor and pride while I was there trying to bring back our fellow service members that gave all to their country," he said.

Since 1973, the remains of more than 700 American service members have been identified in Southeast Asia. Nearly 2,000 are still listed as missing or unaccounted for. Visit www.pacom.mil/jtffa.htm for more information. @

BEYA award (from page 1)

He has published more than 10 technical papers in selected journals, and holds memberships in Sigma Xi, Keramos Fraternity, American Ceramic Society, National Institute of Ceramic Engineers and the Omega Psi Phi Fraternity. He is also affiliated with the National Association for the Advancement of Colored People, the National Management Association and the Urban League.

His accomplishments have earned him a six-year, \$20 million basic research program, the Support Division's Quick Reaction Evaluation Contract. This program focuses on corrosion support, electrical and structural materials, materials testing and evaluation, rain erosion, failure analysis, non-destructive inspection, composite testing, and elec-

trical static discharge research and development activities at the directorate. In addition, he will assume materials research duties in the areas of carbon foam technology, ceramics and ceramic coatings.

BEYA was conceived 17 years ago, as a way to publicly recognize black men and women who achieved great success in their careers, but who were still largely unknown and unrecognized for their work in the technical communities. A panel of representatives from industry, government and national organizations selects award winners. Of the more than 3,000 nominations the BEYA selection panel has received during the last 17 years, a mere eight percent have been selected for awards. @

Airmen help Ohio tornado victims pick up the pieces

by 2nd Lt. J. Elaine Hunnicutt, AFRL Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Approximately 30 Wright-Patterson AFB volunteers helped families in Van Wert begin to put their lives back together.

An F-4 tornado with winds exceeding 200 mph struck the town, destroying more than 800 structures including homes and businesses, at 2:45 p.m. Nov. 10.

"I have seen destruction before, floods, tornadoes and avalanches," said 2nd Lt. Christopher Michele of Aeronautical Systems Center. "The power never ceases to amaze me. But the resiliency of the human spirit is nothing less than inspirational."

The event claimed five lives and injured more than 25 others, and the governor declared a state of emergency.

More than 300 jobs will be lost due to the damaged businesses. Jim and Joyce Boyd lost both their home and business in the storm. They said they were overwhelmed by the support offered by the more than 500 volunteers that arrived to help restore order to their lives.

According to Erma Francioni, sister of Joyce Boyd, the amount of damage that had to be cleaned up was overwhelming.

"We had a lot of work to do and I wasn't sure how we were going to get it all done," Francioni said.

"I flew in with my brothers and sisters from the East Coast to help our sister, Joyce (Boyd). I was surprised to see all of the volunteers that came out. We are grateful for their support and help; we couldn't have done it without them. There was just too much."

According to Michele, the site could've been a chaotic mess with volunteers having no idea where to begin.

"Fortunately, the town had already solved that problem and sent us on our way to the destruction (following the initial sign in)."

Second Lt. Richard Baysinger, ASC, totaled his car on the way to the site when he hit an icy patch on a bridge, a spot that claimed several other cars that morning. Baysinger continued on with his passenger, David Krick of ASC, to Van Wert with another volunteer



2nd Lt. Shawn Fontenot, Air Force Research Laboratory, breaks down the wall of Jim and Joyce Boyd's garage during disaster cleanup in Van Wert, Ohio, Saturday. The Boyds' home and business were destroyed by an F-4 tornado. Air Force photo by 2nd Lt. J. Elaine Hunnicutt

who later stopped for directions near the accident.

The following Wright-Patterson AFB individuals helped:

Mike Barga, Juan Diaz, Albert Griggs, Lt. Col. Carolyn Winters, Capt. Michele Hanson, Capt. Kevin La Rochelle, Capt. Amy Mayer, Capt. Matthew Sinning, Capt. Carol West, 2nd Lt. Randy Allen, 1st Lt. Janice Barker, 2nd Lt. Richard Baysinger, 2nd Lt. Joseph Clapsaddle, 2nd Lt. Brian Crosby, 2nd Lt. Steven Dillenburger, 2nd Lt. Todd Dye, 2nd Lt. Shawn Fontenot, 2nd Lt. David Gwilt, 2nd Lt. David Krick, 2nd Lt. Jason Malewiski, 2nd Lt. Ryan Marcotte, 2nd Lt. Christopher Michele, 2nd Lt. Joel Mitre, 2nd Lt. Jennifer O'Hara, 2nd Lt. Zachary Rosson, 2nd Lt. Jana Therrien and Staff Sgt. Michelle Wright. @

'Helping Hands' spread holiday cheer in PR Directorate

by Michael Kelly, Propulsion Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — The spirit of Christmas is alive and well in the Propulsion Directorate this holiday season.

Santa may even be a bit envious of the frenzied pace of elf-like activity as the directorate's team of "Helping Hands" prepares to bless six local families with presents and enough fixings to provide a complete holiday meal. In addition, the team provides toiletry items, laundry detergent, paper towels, toilet paper, all kinds of canned goods, flour, sugar, coffee and hot chocolate.

Helping Hands, a charitable, non-profit organization made up of 17 Propulsion Directorate employees, gives Santa a run for his money every year, according to Lynne Nelson, the organization's president. The stated goal is simple enough, she said, "Help individuals and families in need in the local community. This is our biggest accomplishment throughout the year."

Nelson, who has three Christmas deliveries under her belt, is amazed at how much blessing comes from the team's efforts. "I remember one family a few years ago that when we asked the mother what she needed most she said, 'if you can just provide my children with some underwear I'd be thrilled.'"

"My favorite part of this work is seeing what it means to the folks we help. It's quite a moving experience," she explained. "I remember feeling like I was going to cry all the way back to the base after we made deliveries last year. We just don't realize day to day how much we have and how much we take it for granted."

Judging by the year-long support generated within the directorate, the men and women she works with seem to agree.

"I think we're fortunate because we are able to support quite a few folks with the generous contributions of people within the propulsion directorate," Nelson pointed out. @

Propulsion's rich heritage and traditions continue

by Mike Kelly, Propulsion Directorate

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Heritage is something passed down from preceding generations — tradition. Despite the passing decades, tangible evidence still remains from the early 1900s — the groundbreaking days of aerospace and propulsion research at Wright Field, what is now Area B. Historic buildings stand prominently throughout Wright-Patterson, their foundations still strong.

Within Air Force Research Laboratory's Propulsion Directorate, ties to the traditions of their past keeps them focused squarely on the future, according to its director.

"Staying connected with our tremendous heritage is a very real priority in the engine community," said Col. Al Janiszewski, propulsion director. "We do this in an important way — we do it by sharing the same incredible sense of innovation the Wright brothers displayed by developing revolutionary technologies that make today's Air Force second to none. We honor our past while creating our future."

Helping draw attention to that past is a unique and significant project to document propulsion's contribution to America's aerospace achievements.

Dubbed "Heritage Hall," and dedicated last summer by Maj. Gen. Paul Nielsen, AFRL commander, the march of propulsion progress from the earliest days of research and development is on display for the current generation of innovators who walk the halls.

The hall's historical photos reveal the progress of propulsion technologies since Orville and Wilbur Wright bolted their horizontal "guinea pig" engine to their 1903 Wright Flyer and fired it up.

One of the most remarkable pieces of the collection is a photograph of a little known, but significant event that brought together two of the world's greatest inventors — Hans von Ohain and Sir Frank Whittle, co-inventors of the jet engine. On May 3, 1978, the propulsion directorate hosted the historic meeting in Bldg. 18, where the two innovators provided propulsion scientists and engineers with an informal discussion of the events, anecdotes and circumstances that led each of them to discover the jet turbine and its first use to power flight.

Von Ohain, then chief scientist of the Aero Propulsion Laboratory of the Air Force Wright Aeronautical Laboratories, shared how before World War II, each was working separately and knew nothing of the other's work — von Ohain working for the German Luftwaffe and Whittle serving as a Royal Air Force officer.

Although Whittle registered a patent for the turbojet engine in 1930, he did not perform a flight test until 1941. Von Ohain was first to design and develop a turbojet engine to power an aircraft. He was granted a patent for his turbojet engine in 1936 and by September 1937, he had built a factory-tested demonstration engine. In 1939, as a member of the Heinkel Company in Rostock, Germany, von Ohain fielded a fully operational jet aircraft, the He-178.

Following the war in 1947, von Ohain came to the United States and became a research scientist at Wright-Patterson AFB. He was appointed chief scientist of the Aerospace Research Laboratories (1963) and later became the chief propulsion scientist (1975).

In celebration of the centennial of flight, many more propulsion accomplishments can be viewed in Bldg. 18's Heritage Hall in Area B. @

New financial management director hits the ground running

by 2nd Lt. J. Elaine Hunnicutt, AFRL Public Affairs

WRIGHT-PATTERSON AIR FORCE BASE, Ohio — Pamela Henson assumed the position of Financial Management director for the Air Force Research Laboratory in November.

In her new position, she ensures all the funding for AFRL is properly executed and follows the intent of Congress in the execution of the mission. She also ensures the Commander and his senior leaders receive financial management information to support their decisions.

Henson is "fired up" for her new position and has some goals in mind: first, to ensure leadership has the financial information it needs to make informed decisions; second, to improve information accuracy, reliability, and timeliness; and last, to provide the financial management workforce with the corporate view of the operation, along with the tools and training needed to accomplish its mission.

She has a strong view on her role in the Air Force. "I have the ability to improve the work environment and financial services in the labs. When we (the financial management office) drive to accurate records and systems, then the financial analysts will be able to concentrate on the goal of supporting the scientists and engineers," said Henson. "My goal is to help improve their (scientists and engineers) contributions to the Air Force."

She previously worked at the Air Force Materiel Command Financial Management office in the Inventory Valuation Management Division, where she was making strides to improve the financial valuation of reparable spares inventory to comply with the Chief Financial Officers Act.

"It is important for the taxpayers and congress to be able to assess the health of the Air Force and DoD through accurate Financial Statements. Inventory is a material amount of the assets of the Air Force, around \$7 billion, so it is critical that this value be accurate in order for the statements to be relied on," Henson said.

According to her former bosses she is missed, but it is understood that this move is good for both Henson's professional growth and benefits the Air Force.

"She knows what it means to be a strategic partner with the leadership, one of the key tenets of our vision, FM 2010. We're in the solution business and Pam creates solutions as well as anyone I know," said Brig. Gen. Frank R. Faykes, Air Force Materiel Command Financial Management and Comptroller director, and former supervisor to Henson.

She has been working in the finance arena here since 1976, where she began with the Aeronautical Systems Center Propulsion SPO. @

Net Index

Due to the number of submissions we receive, some sections of *news@afrl* are available exclusively on-line. The on-line version of the newsletter allows users to view the AFRL corporate calendar, news releases generated by AFRL headquarters, operating instructions, L@b L@urels and Roundups sections.

The L@b L@urels section of the electronic newsletter is dedicated to members of Air Force Research Laboratory who receive awards and honors. The Roundups section of the electronic newsletter keeps Air Force Research laboratory employees informed about contracts AFRL has awarded. Below is an index of articles one can find in each of these on-line sections.

L@b L@urels

- MN chief scientist named ASME Life Fellow
- Employees honored for research support
- Ratazzi named as IF Engineer of the Year
- IF's scientists and engineer honored
- SN senior scientists named as IEEE fellows
- Schwartz receives S&E society honorary status

To view the full text of these and other articles visit the *news@afrl* page on the Internet at <http://extra.afrl.af.mil/news/index.htm>.

To submit L@b L@urels or Roundups from your directorate, send a query to AFRL Public Affairs at:

Jill.Bohn@afrl.af.mil

*For more on these stories see news@afrl
<http://extra.afrl.af.mil/news/index.htm>*



From
AFRL PUBLIC AFFAIRS

See you next year!